## **Title and Key Word Index**

(Book reviews are listed under "Books")

Airway obstruction 1

Airway smooth muscle 89

Airway smooth muscle and platelet responses to several varieties of cotton bracts. J. A. Russell, M. L. Gilberstadt, R. A. Rolstad, M. S. Rohrbach 89

Alveolar 245, 271

- macrophage 317

Amniotic fluid 147

Analysis of fibres recovered from lung tissue. N. F. Johnson, J. L. Lincoln, H. A. Wills 37
Angiotensin-converting enzyme 317

Antisera 171

APUD cells 261, 281 Asbestosis 325

Beta<sub>2</sub>-agonists 297 Biochemical marker 337

## Books

- Atlas of Bronchitis. By K. Morgenroth and M.
   T. Newhouse (reviewed by M. H. Williams, Jr.) 122
- Biology and Management of Lung Cancer. By F. Anthony Greco (reviewed by D. Rodescu) 193
- Chronic Obstructive Pulmonary Disease.
   Edited by Hugo D. Montenegro (reviewed by M. H. Williams, Jr.) 315
- Computed Tomography of the Body. By Moss, Gamsu and Genant (reviewed by M. Zelefsky) 253
- Computed Tomography of the Thorax. By Naidich, Zerhouni, Siegelman (reviewed by M. Zelefsky) 253
- Edema. Edited by Norman C. Staub and Aubrey E. Taylor (reviewed by M. H. Williams, Jr.) 314
- Lung Cancer. Edited by W. Duncan (reviewed by D. Rodescu) 381
- Occupational Lung Disease. Edited by J. Bernard, L. Gee, W. Keith, C. Morgan and Stuart M. Brooks (reviewed by M. H. Williams, Jr.) 193
- Pleural Diseases. Edited by Richard W. Light (reviewed by M. H. Williams, Jr.) 122
- Pulmonary Diseases. Clinicopathological Correlations. Edited by K.-M. Müller (reviewed by M. H. Williams, Jr.) 123
- Pulmonary Hypertension. Edited by E. Kenneth Weir and John T. Reeves (reviewed by M. H. Williams, Jr.) 314
- Recent Advances in Respiratory Medicine,
   No. 3. Edited by David C. Flenley and Tho-

- mas L. Petty (reviewed by M. H. Williams, Jr.) 123
- Respiratory Infections: Diagnosis and Management. By James E. Pennington (reviewed by S. G. Baum) 253
- Sleep and Breathing (Lung Biology in Health and Disease Series, Vol. 21). Edited by Nicholas A. Saunders and Colin E. Sullivan (reviewed by M. H. Williams, Jr.) 254
- Synopsis of Diseases of the Chest. By J. A.
   Peter Pare and Robert G. Fraser (reviewed by M. H. Williams, Jr.) 59

Bronchoalveolar 223

lavage 287, 317

Bronchoconstriction 89

Breathing, onset of 61

- pattern 15

Bubbles, pulmonary 61 Byssinosis 89, 347

Ca-channel blocker, verapamil 369

Ca, Mg 369

Calmodulin, W-7, W-5 369

cAMP, DBcAMP, aminophylline 369

Capsaicin 153

Carrageenan 165
Cell membrane permeability 357

- separation 245

- Changes in volume of trapped gas in chronic bronchitis and in asthma after inhalation of fenoterol. J. Arnved, S. Groth, H. Dirksen 297
- Chemical characterization of specific pulmonary macrophage cell surface antigen. J. J. Godleski, M. A. Joher, J. D. Goldstein, J. D. Brain 183

Chemoreflexes 153

Chest wall mechanics 205

Chlorobenzene 79

Ciliated cell differentiation 233

Ciliated cell differentiation in regenerating rat tracheal epithelium. R. E. Gordon, B. P. Lane 233

Clinical data 325

Collagen vascular diseases 287

A comparison of breathing pattern between transient and steady state hypoxia in awake dogs. L.-Y. Lee, R. F. Morton 15

Control of breathing 15

Cotton bracts 89

- dust 347

Cystic lesion of the lung 165

Density dependence 347 Detoxication 305 Diagnosis of asbestosis. Clinical, radiological and lung function data in 42 patients. C. Picado, R. R. Roisin, H. Sala, A. Agusti-Vidal 325

Diagnostic criteria 325

Diaphragm-rib cage interaction 205

Effect of thoracoabdominal configuration on the diaphragmatic contribution to rib cage motion. S. S. Park, A. Seltzer 205

Electromyography 205 Emphysematous bullae 165

Endotoxin 49 Epithelium 245, 357

Exercise-induced asthma 195

Experimental emphysematous bullae. T. Mitsuhashi, S. Sugino, M. Shimazaki, Y. Chanoki, H. Kuwahara 165

Fetal lung development 147

Fetus 61 Fibres 37

Fluid transport 125

Fluorescence polarization 147

Fluorescence polarization of amniotic fluid from pregnant rhesus monkeys with chronic fetal hyperinsulinemia. R. L. Cavalieri, J. B. Susa, P. Sehgal, D. B. Singer, R. Schwartz 147
Forced expiratory volume in one second 115
Forced vital capacity 115
Free-radical 255

Glutathione peroxidase II 27 Glutathione S-transferases 27, 305

Glutathione S-transferases 27, 305
Glutathione S-transferases of lung: purification and characterization of human lung glutathione S-transferases. C. A. Partridge, D. D. Dao, Y. C. Awasthi 27

Helium-oxygen spirometry in experimental cotton dust exposure. M.-J. Sepulveda, J. L. Hankinson, R. M. Castellan, J. B. Cocke 347 Hemodynamic pulmonary edema in dog lungs after contralateral pneumonectomy and mediastinal lymphatic interruption. A. G. Little, V. K. Langmuir, A. H. Singer, D. B. Skinner 139

HeO<sub>2</sub> spirometry 347
5-Hydroxytryptophan 261
5-Hydroxytryptamine 89, 153
Hyperinsulinemia 147
Hyperoxia 255
Hypersomnolence 1
Hypothalamic injury 281
Hypoxia 15

Immune complexes 287

The immunocytochemical detection of angiotensin-converting enzyme in alveolar macrophages from patients with sarcoidosis. Y. Takada, K. Hiwada, H. Akutsu, A. Hashimoto, T. Kokubu 317

Immunochemical localization of glutathione S-transferases in rat lung. Y. C. Awasthi, S. V. Singh, P. C. Moller 305

Immunocytochemistry 317

Immunoglobulin classes in local immune complexes recovered by bronchoalveolar lavage in collagen vascular diseases. H. M. Jansen, A. J. H. Schutte, M. v.d. Giessen, T. H. The 287

Immunology 171, 183

Index of cellular immune response 337
Influence of priming with 5-hydroxytryptophan
on APUD characteristics in human small cell
lung cancer cell lines. J. B. McMahon, H. M.
Schuller, A. F. Gazdar, K. L. Becker 261

Inter- and intraregional gas distribution 297

Interstitial pulmonary disorders 287 Ion transport 125

Ion transport and metabolic effects of amiloride in canine tracheal mucosa. F. J. Al-Bazzaz, R. Zevin 357

The isolation of rat alveolar type II cells: a simplified approach using Percoll density centrifugation. D. M. Skillrud, W. J. Martin II 245

Lavage 223

Lavaged excised rat lungs as a model of surfactant deficiency. M. S. Bermel, J. T. Mc-Bride, R. H. Notter 99

Leukotrienes 369 Localization 305

Loss 37

Lung 27, 37, 49, 271

- cancer 73, 261 - function tests 325

- mechanics 99

stability 61water 139

Lymphadenectomy 139

Macrophage 49

Macrophages 171, 183

Mechanism of leukotriene-induced contraction of isolated guinea pig tracheal smooth muscle. T. Sasaki, K. Takagi, T. Satake, S. Sugiyama, T. Ozawa 369

Mechanisms of exercise-induced asthma. E. Bar-Yishay, S. Godfrey 195

Mechanisms of pulmonary oxygen toxicity. A. B. Fisher, H. J. Forman, M. Glass 255

Mediators of sensitivity 195

Metabolism 79

Metabolism of chlorobenzene in the mucosa of the murine respiratory tract. E. Brittebo, I. Brandt 79 Methylchoranthrene 165

Movement of electrolytes and fluid across airways. I. Nathanson, J. A. Nadel 125 Mucociliary clearance 125

Nasal mucosa 79

Natural and induced antisera specific for pulmonary macrophages. J. J. Godleski, J. D. Brain 171

Neonate 61

Neopterin as an index of immune response in patients with tuberculosis. D. Fuchs, A. Hausen, M. Kofler, H. Kosanowski, G. Reibnegger, H. Wachter 337

Obstructive lung disease 297
Obstructive sleep apnea – pathogenesis and treatment. M. H. Gotfried, S. F. Quan 1

Oxygen toxicity 255

Peak expiratory flow 115

Perinatal lung mechanics and the first breath. E. M. Scarpelli 61

Peripheral chemoreceptors 15

Platelets 89

Plasminogen activator 49

Pleural effusion 73

Pneumonectomy 139

Pneumocytes 245
Polymorphonuclear leukocyte (PMN) 255

Pulmonary 271

- alveolar proteinosis 223

Pulmonary alveolar proteinosis: prospective clinical experience in 23 patients for 15 years.
K. Kariman, J. A. Kylstra, A. Spock 223

Pulmonary surfactant 99, 147

- tuberculosis 337

- venous obstruction 73

Quantitation 281

Quantitative studies of argyrophilic APUD cells in airways and intestine: effects of hypothalamic injuries. A. M. Marchevsky, S. Keller, J. Jacobs, J. Kleinerman 281

Rabbit 165 Radiographic changes 325 Rat lung 305 Recovery 37 Reflex changes in respiration and heart rate evoked by intravenous and left ventricular injection of 5-HT and capsaicin in anaesthetized rats: a comparison of mechanisms. H. W. Mitchell, J. Tomlin, R. J. Ward 153

Refractory period 195

Respiration 153

Respiratory heat loss 195

- tract 79

volume-timing relationship 15

Resistance 115

Role of avleolar macrophage plasminogen activator in the acute pulmonary responses to endotoxin. T. Etoh, E. Kakishita, K. Nagai 49

Sarcoidosis 317

Sleep 1

- apnea 1

Sodium channels 357

Surface antigen 183

– tension 99

Surfactants 61

Therapy control 337

Thoracoabdominal breathing 205

Trachea 125, 357

Tracheal diameter as a predictor of pulmonary function. P. Montner, A. Miller, F. Calhoun 115

- epithelium 233

- smooth muscle, guinea pig 369

Type II 245

Type II alveolar epithelial cells in suspension: separation by density and velocity. S. E. S. Brown, B. E. Goodman, E. D. Crandall 271 Type II cells 271

Unit gravity sedimentation 271

Unusual hemodynamic findings in a patient with obstruction of the pulmonary vein by tumor.

A. Baydur, T. D. Gaarder, U. T. Slager, D. A. Fischer 73

Urinary neopterin 337

Volume-pressure diagram 61 Volume of trapped gas 297

Zero surface tension 61